PATENT ABSTRACTS OF JAPAN

(11) Publication number: 11071642 A

(43) Date of publication of application: 16.03.99

(51) Int. CI

C22C 38/00

B21J 5/00

B23P 9/00

C22C 38/48

C23C 8/26

(21) Application number: 09233607

(22) Date of filing: 29.08.97

(71) Applicant:

DAIDO STEEL CO LTD

(72) Inventor:

OMA HIDEYUKI ISHIDA KAZUHISA

(54) SLIDING MEMBER

(57) Abstract:

PROBLEM TO BE SOLVED: To produce a sliding member jointly having rigidity, wear resistance and corrosion resistance at a stroke by subjecting a martensitic stainless steel contg. a specified amt. of C to cold forging as-annealed and subjecting the surface to nitriding, treatment.

SOLUTION: A martensitic stainless steel contg., by weight, $\leq 0.3\%$ C is heated at 850° for 30 min, is

annealed and is subjected to cold die forging to form into a stock. It is subjected to gas nitriding at 500 to 560°C for 3 to 35 hr in an NH $_3$ cracked gas. As the martensitic stainless steel, SUS403 (0.1C-12Cr- Fe), SUS410 (0.1C-Si-Fe), SUS410J1 (0.15C-13Cr=0.5Mo-Fe) and SUS (0.1C-0.5 Si-0.8Mn-13Cr-Fe) are given. The steel is preferably added with one or more kinds among $\leq 1\%$ V, h0.5% Nb and $\leq 3\%$ Cu.

COPYRIGHT: (C)1999,JPO